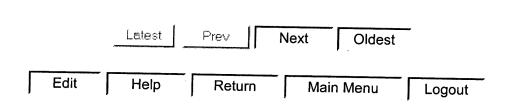
## WEST

## Searches for User *imarx* (Count = 2517)

Queries 2468 through 2517.



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<u>S2516</u>	<u>U</u>	USPT	-	4608202	2002-03-18 12:19:49	
<u>\$2515</u>	<u>U</u>	USPT		((methanol or ethanol or propanol or butanol )same ((methanol or propanol or butanol )same lipase )) not (((methanol or ethanol or propanol or butanol )same ((methanol or ethanol or ethanol or propanol or butanol )same (ipase ))same lipase ))same (acid ))	2002-03-18 08:44:19	
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<u>\$2513</u>	<u> U</u>	USPT	propanol or butanol )same ((methanol or ethanol or propanol or butanol )same lipase )) same (acid )	2002-03-18
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<u>\$2512</u>	_	USPT	(methanol or ethanol or propanol or butanol) same ((methanol or ethanol or propanol or butanol) same lipase)	2002-03-18 08:42:20
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<u>S2510</u>	<u>U</u>	USPT	oil or coconut or cocoanut	2002-03-18 08:41:18
<u>S2509</u>	<u>U</u>	USPT	oil or coconut or cocoanut	
<u>\$2508</u>	<u>U</u>	USPT	(transesterif\$5) same (lipase) same (methanol or ethanol or propanol or butanol)	
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<u>S2506</u>	<u>U</u>	USPT	lipase	2002-03-18 08:36:10
<u>S2505</u>	<u>U</u>	USPT		2002-03-18

						08:35:47
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	<u>S2497</u>	<u>U</u>	USPT		(deacidif\$4) (oil or triglyceride ) same (lipase) same (methanol)	08:52:53
3	<u>S2496</u>	<u>U</u>	USPT		((coconut or cocoanut)) same (lipase) same (methanol)	2002-03-15
When draw	<u>S2495</u>	<u>U</u>	USPT,JP	AB,EPAB,DWP	I ((coconut or cocoanut) ) same (lipase ) same (methanol)	2002-03-15 08:51:51
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	<u>S2493</u>	Ū	USPT		)same (lipase )) (deacidif\$4 ) and	
	<u>S2492</u>	<u>U</u>	USPT		deacidif\$4	08:48:11 2002-03-15 08:48:00

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<u>S2490</u> <u>U</u> USPT	(oil or triglyceride ) same (lipase )
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S2489 U JPAB,EPAB,DWPI	((coconut or 2002-03-15 cocoanut) ) same 08:47:16 (oil or triglyceride
S2488 U JPAB,EPAB,DWPI	) same (lipase ) (methanol ) and 2002-03-15 (lipase ) and (oil 08:32:52
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S2486 U JPAB,EPAB,DWPI	((Coconut or cocoanut) ) (methanol ) and 2002-03-15 (lipase ) and (oil 08:32:04 or triglyceride )
S2485 U JPAB,EPAB,DWPI	and ((coconut or cocoanut) ) (coconut or 2002-03-15
S2484 U JPAB,EPAB,DWPI	cocoanut) 08:31:51 oil or triglyceride 2002-03-15
S2483 U JPAB,EPAB,DWPI	08:31:32 lipase 2002-03-15
S2482 U JPAB,EPAB,DWPI	08:31:23 methanol 2002-03-15
<u>S2481</u> <u>U</u> USPT	08:31:10 ((coconut or 2002.03.45
<u>S2480</u> <u>U</u> USPT	cocoanut) ) same 08:30:35 (oil or triglyceride ) same (lipase ) same (methanol ) methanol 2002-03-15 08:30:12

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	lipase	2002-03-15 08:30:04
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<u>S2477</u> <u>U</u> USPT	(Coconut or	08:29:35 2002-03-15
<u>S2476</u> <u>U</u> USPT	cocoanut) 5639860	08:29:15 2002-03-14
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<u>S2474</u> <u>U</u> PGPB	Colleotrichum	18:17:37 2002-03-14
<u>S2473</u> <u>U</u> PGPB		18:17:10 2002-03-14
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<u>S2471</u> <u>U</u> PGPB	(fruit or vegetable i or stem or plant ) : same (porcine	18:15:09 2002-03-14 18:04:56
<u>S2470</u> <u>U</u> PGPB	near4 esterase ) porcine near4 2	2002-03-14
<u>S2469</u> <u>U</u> PGPB	esterase 1 fruit or vegetable 2	8:04:30
S2468 U JPAB,EPAB,DWPI	(porcine near4 2	8:04:16 002-03-14 8:02:39

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> d ab bib l14 tot

L14 ANSWER 1 OF 7 USPATFULL Production of monoglycerides is enhanced by means of enzymatic AB transesterification of triglycerides with aliphatic alcohols in a medium of supercritical CO.sub.2. Aliphatic primary and secondary alcohols of to 8 carbon atoms may be used without support in supercritical CO.sub.2 at temperatures compatible for enzymatic transesterifion of tryglycerides. Utilization of these lower reaction temperatures has the benefit of diminishing the production of undesired side products and thus increasing the reaction efficiency with regard to production of the desired monoglycerides. 1998:48224 USPATFULL AN Monoglyceride production via enzymatic glycerolysis of oils in TΙ supercritical CO.sub.2 Jackson, Michael A., Morton, IL, United States IN The United States of America, as represented by the Secretary of PΑ Agriculture, Washington, DC, United States (U.S. government) 19980505 US 5747305 PΤ 19960710 (8) US 1996-679368 AΙ Utility DT Granted Primary Examiner: Lilling, Herbert L. EXNAM Silverstein, M. Howard, Lipovsky, Joseph A., Fado, John D. Number of Claims: 10 CLMN Exemplary Claim: 1 ECL No Drawings DRWN LN.CNT 315 CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS L14Derivs. of (11E)-10-oxo-11-octadecen-13-olide (I) and its seco-acid (II) AB were synthesized from linoleic acid for purpose of elucidation of their cytotoxic activity. Linoleic acid was converted into (13S, 9Z, 11E)-13-hydroxy-9,11-dienoic acid (III) by soybean lipoxygenase-catalyzed oxidn. followed by treatment with NaBH4. III was cyclized by the Yamaguchi and the Mitsunobu methods to give 14-membered lactones (S)-IV and (R)-IV, resp., which reacted with oxygen and triethylsilane in the presence of Co(tdcpp) (as a catalyst) followed by acetylation-decompn. of the intermediary hydroperoxide to produce (S)-I and (R)-I. Lipase -catalyzed hydrolysis of (R)-I gave hydroxy keto acid (R)-II. redn.-oxygenation of a dienoic ester prepd. from III afforded an oxo deriv., which was deprotected to give hydroxy keto acid (S)-II. The other derivs. related to I and II were synthesized in a similar manner. On the other hand, (E)-4-hydroxy-2-nonenal (HNE) and (E)-4-hydroxy-2-hexenal (HHE), cytotoxic aldehydes produced during lipid peroxidn. in biol. system, were synthesized in one step from com. available 2,4-alkadienals by the Co(tdcpp)-catalyzed redn.-oxygenation. Deuterium-labeled HNE and HNE were prepd. by use of triethyldeuterosilane and 2-propanol-d instead of triethylsilane and 2propanol on the redn.-oxygenation of 2,4-alkadienals. The IC50 values of the fatty acid derivs. were detd. against P388 mouse leukemia cells. I showed the strongest cytotoxicity among the derivs., however, no difference in cytotoxicity was found between the optically active and racemic forms of I. The cytotoxicity of

the macrolides was enhanced compared with the corresponding seco-acids.

The enone moiety in I and II is considered to be important for the cytotoxic action. 1999:313232 ANCAPLUS DN 131:257356 Syntheses of fatty acid derivatives derived from lipid peroxidation by TIthe application of cobalt porphyrin-catalyzed reduction-oxygenation Matsushita, Yoh-ichi; Sugamoto, Kazuhiro; Matsui, Takanao ΑU Faculty of Engineering, Miyazaki University, Miyazaki, 889-2155, Japan CS SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1998), 40th, 613-618 CODEN: TYKYDS PΒ Nippon Kagakkai DТ Journal LΑ Japanese ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS L14DUPLICATE 1 Structured lipids (SL) contg. n-3 polyunsatd. (eicosapentaenoic or docosahexaenoic) and medium chain (caprylic) fatty acids were synthesized in gram quantities and characterized. Tricaprylin was mixed with n-3-rich polyunsatd. fatty acids in a 1:2 molar ratio and transesterified by incubating at 55.degree.C in hexane with SP 435 lipase (10% by wt of total substrates) in a 125-mL Erlenmeyer flask as the bioreactor. After several batches of reaction, the products were pooled and hexane was evapd. Short-path distn. was used for purifn. of synthesized SL. The distn. conditions were 1.1 Torr and 170.degree.C at a feed flow rate of 3 mL/min. Up to 240 g of SL was isolated and deacidified by alk. extn. or ethanol-water solvents. fatty acid profile, free fatty acid value, sapon. no., iodine value, peroxide value , thiobarbituric acid, and conjugated diene contents were detd. Oxidn. stability, with .alpha.-tocopherol as antioxidant, and the oxidative stability index were also detd. ΑN 1998:258973 CAPLUS DN 129:15983 Characterization of enzymically synthesized structured lipids containing ΤI eicosapentaenoic, docosahexaenoic, and caprylic acids Lee, Ki-Teak; Akoh, Casimir C. ΑU Department of Food Science and Technology, The University of Georgia, CS Athens, GA, 30602, USA SO J. Am. Oil Chem. Soc. (1998), 75(4), 495-499 CODEN: JAOCA7; ISSN: 0003-021X PBAOCS Press DTJournal LΑ English ANSWER 4 OF 7 CAPLUS COPYRIGHT 2002 ACS L14A review with 15 refs. on a method for detg. acids based on measurement AΒ of redn. prepeak current of 2-methyl-1,4-naphthoquinone (VK3) in ethanol soln. The instrumentation by voltammetry, flow injection anal. (FIA) with electrochem. detection and High-performance liq. chromatog. (HPLC) with electrochem. detector was capable of measuring acids. Prepeak height on the voltammogram obtained in ethanol soln. contg. acid, 3 mM VK3 and 38 mM LiClO4 was linearly related to acid concn. at  $\overset{\circ}{8}$  .mu.M to 6 mM. FIA response was linear between 25 to 1500 pmol of acid. FIA was found not only sensitive, but also to be simple and rapid. Acid values of fats and oils , acidity of coffee, and enzyme activity of lipase were detd. Free fatty acids in a soya bean oil were detd. by

HPLC, the mobile phase of ethanol-acetonitrile (10:90) mixt., and a VK3 ethanol soln. contg. LiClO4. The present method is practically useful for acid detn. of samples in various fields. ΆN 1999:82364 CAPLUS DN 130:266432 ΤI Amperometric determination of acids ΑU Kusu, Fumiyo CS Tokyo Pharmaceutical College, Japan SO Dojin News (1998), 89, 3-7 CODEN: DONEEA; ISSN: 0385-1516 PR Dojin Kagaku Kenkyusho DTJournal; General Review LA Japanese L14 ANSWER 5 OF 7 USPATFULL A water-soluble substrate and an oily substrate are continuously AΒ reacted with immobilized lipase in a reaction vessel having vertically maintained apart upper and lower conically-shaped regions, respectively, for separation of a water-soluble product and an oily product, a plurality of lipase reaction zones each containing immobilized lipase capable of being fluidized and an agitating means, and a plurality of intermediate separation zones for separation of an oily substance and a water-soluble substance. The lipase reaction zones and the intermediate separation zones are disposed alternately between the upper and lower conically-shaped separation regions. Boundaries between the lipase reaction zones and intermediate separation zones are pervious to liquid but impervious to the immobilized lipase. The water-soluble substrate and oily substrate are passed in counterflow contact through the lipase reaction zones and intermediate separation zones and mutually contact the immobilized lipase which has been fluidized. An oily product is recovered from the upper conically-shaped separation region and a water-soluble product is recovered from the lower conically-shaped separation region. AN 91:32376 USPATFULL Method for continuous reaction with fluidized immobilized lipase ΤI Kosugi, Yoshitsugu, Tsukuba, Japan TN Tanaka, Hideoki, Tsukuba, Japan Suzuki, Hideo, Tokyo, Japan Shiraki, Masaru, Tsukuba, Japan Agency of Industrial Science & Technology, Tokyo, Japan (non-U.S. PA government) Ministry of International Trade & Industry, Tokyo, Japan (non-U.S. government) ΡI US 5010004 19910423 ΑI US 1988-255599 19881011 (7) PRAI JP 1987-255057 19871009 DT Utility FS Granted EXNAM Primary Examiner: Naff, David M. Oblon, Spivak, McClelland, Maier & Neustadt LREP CLMN Number of Claims: 13 ECL Exemplary Claim: 1 1 Drawing Figure(s); 1 Drawing Page(s) LN.CNT 845 CAS INDEXING IS AVAILABLE FOR THIS PATENT. L14

L14 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. AB Rice is the principal raw material of sake, and its quality largely affects sake manufacturing; peripheral layers of brown rice grain contain large amounts of lipids which are considered to be undesirable for sake quality, but the details are not clearly elucidated. In sake brewing, rice is polished before use, one of the main purposes of the process is to remove the undesirable lipids. Although content of ether extractable lipid (I), mainly triglyceride (TG), decreases most rapidly with decrease of polishing ratio, content of fat by hydrolysis (II), main component of polished rice lipids, remains nearly constant, 0.6%. Palmitic (C16:0), oleic (C18:1) and linoleic acid (C18:2) are the main fatty acids components of I, and the ratio of the total amounts of saturated fatty acids (SFA) to those of unsaturated ones (S/U) shows a tendency to increase with decrease of the polishing ratio; the tendency

is

especially remarkable in TG fraction. In II, C16:0 is predominant and a little change is observed on the composition of **fatty** acids with the polishing ratio. During steaming process, TG of I decreases to 30-50% of the original amount. The free **fatty** acids (FFA) produced by hydrolysis of glycerides evaporate successively with steam during the process, particularly a large amounts of unsaturated **fatty** acids (UFA) are removed, and consequently the value of S/U increases. It is

also

proved that stimulative hydrolysis of glycerides by steeping of rice in lipase solution causes removal of more greater amounts of UFA. Rice-koji for sake brewing contains 0.31 to 0.56% of I and 0.53 to 0.67% of II. TG, FFA and monoglycerides (MG) are the main components of I, and fatty acids of these lipids are rich in UFA such as C18:2 and C18:1. The ratio of UFA in I changes with the rice-koji making conditions such as aeration and temperature progress. Aeration has the greater effect. Rice-koji preparation under limited aeration causes a marked decrease in the production of C18:2 with a corresponding increase of C18:1. As the fermentation of sake mash proceed, steamed rice and rice-koji are digested and solid fraction in mash decreased, and about

58%

of II in raw materials becomes extractable with ether. Because of low solubility of lipid in water, a large proportion of lipids remains in the decreasing solid fraction. A small amount of lipid is liberated in liquid fraction (liberated lipid: III), which increases according to the increase of alcohol concentration in mash and reaches about 500 ppm of the liquid fraction at the final stage of fermentation. Main components of III and I of the solid fraction are FFA, TG and ethyl esters of fatty acids (EtOR). II of solid fraction is mostly consisted of FFA. Since EtOR is not found in raw materials, it seems to be formed by yeast during fermentation. Each different

fatty acid composition, respectively. The value of S/U increases during fermentation. Since it is shown that the yeast cultured under the alcoholic fermentation condition synthesizes a large quantity of stearic acid (C18:0), most of this acid found in III is considered to be formed by yeast during the fermentation. The formation

of

esters such as ethyl acetate (EtOAc) and isoamyl acetate (iAmOAc) found

in

a medium are highly dependent on the **fatty** acid composition; SFA and their derivatives added to the medium promote the formation of the esters by various yeast strains, while UFA and their derivatives strongly supress their formation. These effects of **fatty** acid on the formation of esters have been proved by many pilot plants and full scale sake brewings. These esters largely contribute the excellent flavor of

sake and a sake rich in these esters is usually preferred as a good sake in many sensory contests. The fatty acid added to the medium is intactly incorporated into yeast cellular lipids such as TG and phosphatidylcholine (PG), even though some of them does not originally exist in sake yeast Kyokai no. 7 cells. It is, therefore, considered that fatty acid composition of the yeast cellular lipids remarkably differs with the kind of fatty acid added to the medium, but presumbly within the physiological tolerance of the cells. As well know, PG is one of the major components of biomembrane lipids . Physical and chemical properties of diacyl groups or fatty acid composition of the lipids play a crucial role in the function of biomembrane. The synthesis of acetic-esters in yeast cell occures via alcoholysis of acetyl-CoA catalyzed with Acetyl-CoA: alcohol acetyltransferase (AATFase). The maximum activity of AATFase appears at the late stage of exponential growth phase. The enzyme preparation having high specific activity is predominantly associated with a microsomal fraction, and the activity is maximum at pH 6.6 and 30.degree. C. Of alcohol tested, the enzyme exhibits the highest activity to C6 alcohol, and 16% and 30% of the activity to isoamyl alcohol are found in ethanol and isobutanol respectively. Treatment of microsomes with ether, phospholipase A2, or lipase causes decrease in AATFase activity. The deactivated preparations are partially restored their acetic-ester synthesizing activity by addition of lecithin or

C16:0,

while C18:2 is not effective or strongly inhibits the activity. From the facts described above, it may be presumed that the formation of esters by sake yeast is affected by the inhibition of AATFase bound to cell membranes with UFA and the changes of permeability of the esters through cell membranes which depends largely on the kind of fatty acyl chains or fatty acid composition of membrane lipids.

- 1986:141806 BIOSIS
- DN BA81:52222
- CHANGES OF LIPIDS DURING SAKE BREWING AND THEIR CONTRIBUTION TO ESTER FORMATION BY YEAST.
- YOSHIZAWA K; ISHIKAWA T ΑU
- NATIONAL RESEARCH INST. BREWING, 2-6-30 TAKINOGAWA, KITA-KU, TOKYO 114, CS
- SO HAKKOKOGAKU KAISHI, (1985) 63 (2), 161-174. CODEN: HKOKDE. ISSN: 0385-6151.
- FS BA; OLD
- LA Japanese
- L14 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS
- Fats and oils are transesterified in a continuous 2-step reaction, i.e. hydrolysis followed by esterification, with lipase (EC 3.1.1.3) [9001-62-1] as the catalyst. The reaction is facilitated by addn. of alc. to either (or both) steps and enzyme efficiency is improved by binding to a fixed solid support. Thus, 103 mg of Rhizopus delemar lipase (98,000 units/g), which attacks the triglyceride 1 and 3 position, dissolved in 2.0 g water, was absorbed on 20 g of a chitosan acetate-celite carrier. The fixed enzyme was added to a  $\tilde{m}ixt.$  of 38 g palm oil, 120 g hexane and 2.5 g [71-36-3], with stirring, to effect hydrolysis in a closed reactor, at 40.degree.. After 2 h, 20 g stearic acid [57-11-4], in the presence of N (to remove water vapor), were added, and the esterification was conducted at 40.degree. for 12 h. triglyceride, diglyceride, monoglyceride, free fatty acid, fatty acid alc. ester, and acid values

, after completion of the 1st step and in the final product, were 29.7 and

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46.9%, 26.2 and 5.0%, 4.6 and 0.0%, 11.1 and 11.5%, 28.4 and 36.5%, and 21.0 and 20.6, resp. The product is suitable for use as a cocoa butter
        substitute.
        1985:111894 CAPLUS
  AN
  DN
        102:111894
        Reaction method for transesterifying fats and oils
  TI
       Maruzeni, Shoji; Matsumoto, Wataru; Yasuda, Nozomi
  IN
  PA
       Asahi Denka Kogyo K. K. , Japan
  so
       Eur. Pat. Appl., 51 pp.
        CODEN: EPXXDW
  DT
       Patent
 LA
       English
 FAN.CNT 1
       PATENT NO.
                          KIND DATE
                                                   APPLICATION NO. DATE
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       EP 126416 A1 EP 126416 B1
 ΡI
                                  19841128
                                                    EP 1984-105522 19840515
                                  19880107
           R: DE, FR, GB, NL, SE

      JP 59213390
      A2
      19841203

      JP 03061423
      B4
      19910919

                                                    JP 1983-88167
JP 03061423 B4 19910919
JP 60019495 A2 19850131
JP 03065949 B4 19911015
JP 60203196 A2 19851014
JP 03065950 B4 19911015
US 4874699 A 19891017
PRAI JP 1983-88167 19830519
                                                                       19830519
                                                   JP 1983-126392
                                                                        19830712
                                                   JP 1984-57739
                                                                        19840326
                                                   US 1986-898513
                                                                      19860821
                              19830519
       JP 1983-126392
                                19830712
       JP 1984-57739
                                 19840326
       US 1984-611964
                                19840518
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L3
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L4
         3054512 S OIL? OR LIPID? OR FAT?
L5
          122009 S TRIGLYCERID?
L6
         3081004 S L4 OR L5
L7
                8 S L1 (P) L3 (P) L5
                8 DUP REM L7 (0 DUPLICATES REMOVED)
L8
          858566 S ETHANOL OR METHANOL OR BUTANOL OR PROPANOL OR ALKANOL?
L9
L10
                0 S L7 (P) L9
L11
           33630 S TRANSESTERIF?
L12
            1702 S L9 (P) L6 (P) L3
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L13

L14

8 S L12 (P) L2

7 DUP REM L13 (1 DUPLICATE REMOVED)

## => DIS HIST

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L2
          60356 S ACID (3A) VALUE?
         234704 S ?LIPASE? OR ESTERASE?
L3
        3054512 S OIL? OR LIPID? OR FAT?
L4
L_5
         122009 S TRIGLYCERID?
        3081004 S L4 OR L5
L_6
L7
              8 S L1 (P) L3 (P) L5
L8
              8 DUP REM L7 (0 DUPLICATES REMOVED)
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L9
L10
              0 S L7 (P) L9
L11
         33630 S TRANSESTERIF?
          1702 S L9 (P) L6 (P) L3
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L13
             8 S L12 (P) L2
             7 DUP REM L13 (1 DUPLICATE REMOVED)
L14
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